



NATIONAL SCIENCE FOUNDATION  
4201 WILSON BOULEVARD  
ARLINGTON, VA 22230

Title: The Division of Electrical and Communication Systems (ECS)  
Electronics, Photonics and Device Technologies (EPDT), Program Director Employment Opportunities  
Dear Colleague Letter

Date: September 20, 2005

Dear Colleagues,

The Division of Electrical and Communication Systems (ECS) announce a nationwide search for a Program Director for the Electronics, Photonics and Device Technologies Program at the National Science Foundation (NSF). ***The desired starting date for the position is January 2, 2006.***

The ECS division addresses fundamental research issues underlying component and device technologies, computation, controls and networking principles at the nano, micro and macro scales, and support the integration and networking of complex systems for a variety of application domains in sensing, imaging, telecommunications, information networks, disaster mitigation, homeland security, robotics, power systems, environment, transportation, aerospace, healthcare, manufacturing and other systems-related areas. ECS envisions a research community that will address major technological challenges in devices and systems due to the convergence of micro/nano/info/bio-electronics, controls, communications, networks and computation. ECS has a continuing goal to integrate education into its research programs to ensure a diverse workforce in the 21st Century that will continue innovative advances for the rapid development of emerging technologies as drivers of the global economy.

The ECS Division is organized around three programs:

- Electronics, Photonics and Device Technologies ([EPDT](#))
- Control, Networks and Computational Intelligence ([CNCI](#))
- Integrative, Hybrid and Complex Systems ([IHCS](#))

The management of these programs involves a team approach by Program Directors of the ECS Division, to reflect the increasing convergence of traditional disciplinary topics and the need for interdisciplinary approaches to new problem areas. In addition to these program areas, ECS sponsors workshops on areas of frontier and innovative technologies, which often lead to special program initiatives. Please visit our web site at <http://www.nsf.gov/div/index.jsp?div=ECS>

This job opening is in the area of optoelectronics and photonics in the EPDT program. The candidate for this position should have broad expertise and specific demonstrated experience in novel devices and components in optoelectronics and photonics. Areas of interest include optical devices, optical switching, lasers, detectors, fiber optics devices and associated circuits, organic optoelectronics, ultrafast optical technologies, UV and extreme-UV optics, optical metrology, nanophotonics, quantum optics, terahertz technologies and microwave photonics.

Program Director positions at the National Science Foundation provide a challenging experience and an excellent opportunity to encourage and support engineering research and education. The individuals will work with other Program Directors in formulating research strategies, developing cooperation among government, academia and industry, fostering outreach to underrepresented groups, and will provide leadership within NSF and the research community. The positions require a Ph.D. with a minimum of six years of academic, government or industrial experience.

The Program Director position recruited under this announcement may be filled under the following appointment option:

- **Intergovernmental Personnel Act (IPA) Assignment.** Individuals eligible for an IPA assignment with a Federal agency include employees of state and local government agencies or institutions of higher education, Indian tribal governments, and other eligible organizations in instances where such assignments would be of mutual benefit to the organizations involved. The individual remains an employee of the home institution and NSF provides funding toward the assignee's salary and benefits. Initial IPA assignments are made for a one-year period and may be extended by mutual agreement for up to two additional years.

For additional information regarding IPA assignments visit our website at [http://www.nsf.gov/about/career\\_opps/rotators/ipa.jsp](http://www.nsf.gov/about/career_opps/rotators/ipa.jsp)

Should you or your colleagues be interested in this position, or wish to nominate suitable candidates, please contact the search committee coordinator, **Dr. Rajinder P. Khosla** ([rkhosla@nsf.gov](mailto:rkhosla@nsf.gov)), and forward a curriculum vitae to him by **November 1, 2005**. Applications will be reviewed immediately after this date, though the position will remain open until filled. For questions or further information, please feel free to contact:

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